

BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

Executive Engineer

Yelahanka Division

B.B.M.P. Bengaluru - 64

No:EE/YNK-D/E-PMT/12/2019-20 Dated: 08-11-2019

APPROVED TENDER SCHEDULE -'B'

Item-01

Name of Work:-Improvements to roads, drains and other developmental works in ward no- 02 & 03 under road development head in Chief Minister Nava Nagarothan grants of yelahanka division. (Package - 01)

SI	Description	Unit	Approved Qty	Rate Quoted by the Contractor Approved Rates SATHEESH (SATHYA CONSTRUCTIONS)	
				Rate	Rate in Words
1	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation gras brus shrubs saplings and trees of girth upto 300mm by manual means in area of light jungle removal of stumps disposal of unserviceable materials stacking of serviceable materials labour charges complete as per specifications. MORTH Chapter 2	Sqm	7900.00	11.13	Rupees Eleven and Paise Thirteen Only
2	Removing and resetting of footpath slab	sqm	4686.00	219.26	Rupees Two Hundred Nineteen and Paise Twenty Six Only
3	Removing and resetting of kerb stones	M	3424.00	110.19	Rupees One Hundred Ten and Paise Nineteen Only
4	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete,-wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means: A. Lime Concrete, cement concrete grade M-10 and below. MORTH Specification No. 202	Cum	123.80	505.30	Rupees Five Hundred Five and Paise Thirty Only
5	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per directoins of the Engineer in charge of work.	Cum	6206.86	222.38	Rupees Two Hundred Twenty Two and Paise Thirty Eight Only

Description	Unit	Approved Qty	Rate Quoted by the Contractor Approved Rates SATHEESH (SATHYA CONSTRUCTIONS)	
			Rate	Rate in Words
6 KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC at 220kgs, with 40mm and down size graded granite metal coarse aggregates at 0.892cum and fine aggregates at 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1.4.2	Cum	984.41	5780.92	Rupees Five Thousand Seven Hundred Eighty and Paise Ninety Two Only
7 Providing TMT Bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification and as per directoins of the Engineer in charge of work.	T	134.05	75943.33	Rupees Seventy Five Thousand Nine Hundred Forty Three and Paise Thirty Three Only
8 Providing and laying plain/reinforced cement concrete for side drains Wall & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200. including cost of materials, labour, HOM complete as per specifications.	Cum	2175.48	7423.71	Rupees Seven Thousand Four Hundred Twenty Three and Paise Seventy One Only
9 Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggretes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.	Cum	80.00	5879.98	Rupees Five Thousand Eight Hundred Seventy Nine and Paise Ninety Eight Only
10 Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm C/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of cost of all materials(data Rate enclosed)	sqm	6036.30	2453.85	Rupees Two Thousand Four Hundred Fifty Three and Paise Eighty Five Only

Description	Unit	Approved Qty	Rate Quoted by the Contractor Approved Rates SATHEESH (SATHYA CONSTRUCTIONS)	
			Rate	Rate In Words
11 Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)	Sqm	214.65	5688.90	Rupees Five Thousand Six Hundred Eighty Eight and Paise Ninety Only
12 Providing and fixing Pre cast solid concrete kerb stones of size 450 x 200 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete as per specifications and as per directions of Engineer in charge of work.	Nos	7478.00	500.85	Rupees Five Hundred and Paise Eighty Five Only
13 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications and as per directoins of the Engineer in charge of work.	Sqm	3394.00	89.04	Rupees Eighty Nine and Paise Four Only
14 Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications and as per directoins of the Engineer in charge of work	sqm	375.00	1171.99	Rupees One Thousand One Hundred Seventy One and Paise Ninety Nine Only
15 KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications. MORTH I Chapter 3	Sqm	1144.00	57.66	Rupees Fifty Seven and Paise Sixty Six Only
16 Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per directoins of the Engineer in charge of work.	Cum	2549.16	59.88	Rupees Fifty Nine and Paise Eighty Eight Only

Description	Unit	Approved Qty	Rate Quoted by the Contractor Approved Rates SATHEESH (SATHYA CONSTRUCTIONS)	
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17 Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications and as per directoins of the Engineer in charge of work.	Cum.	1274.58	1947.75	Rupees One Thousand Nine Hundred Forty Seven and Paise Seventy Five Only
18 Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per directoins of the engineer in charge of work.	Cum	1699.44	2101.34	Rupees Two Thousand One Hundred One and Paise Thirty Four Only
19 Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications and as per directoins of the Engineer in charge of work.	Sqm	8497.20	6.68	Rupees Six and Paise Sixty Eight Only
20 Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and as per directoins of the Engineer in charge of work.	Sqm	13863.36	35.62	Rupees Thirty Five and Paise Sixty Two Only
21 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications and as per directoins of the Engineer in charge of work.	Sqm	35947.30	5.57	Rupees Five and Paise Fifty Six Only
22 KSRRB M500-17, Providing and laying dense graded bituminous macadam using 120 TPH capacity Asphalt batch mix plant with sensor paver Gr-I I (50 mm to 75 mm) with 4.5 % VG-30 Bitumen crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision	Cum	693.20	8001.36	Rupees Eight Thousand One and Paise Thirty Six Only

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23 Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications and as per directoins of the engineer in charge of work.	Sqm	45073.60	13.36	Rupees Thirteen and Paise Thirty Six Only
24 Providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.	Cum	1700.35	9134.39	Rupees Nine Thousand One Hundred Thirty Four and Paise Thirty Nine Only
25 Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per directoins of the Engineer in charge of work.	Sqm	2378.10	477.48	Rupees Four Hundred Seventy Seven and Paise Forty Eight Only

Description	Unit	Approved Qty	Rate Quoted by the Contractor Approved Rates SATHEESH (SATHYA CONSTRUCTIONS)	
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RRB M800-35. Supply and Installtion of moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.	Nos	3532.00	375.08	Rupees Three Hundred Seventy Five and Paise Eight Only
27 Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete, as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory.	sqm	4.32	14799.56	Rupees Fourteen Thousand Seven Hundred Ninety Nine and Paise Fifty Six Only

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Direction and Place Identification Signs with size more than 0.9 Size Board: Providing and erecting direction and place identification retro - reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing.	Nos	23.49	7935.69	Rupees Seven Thousand Nine Hundred Thirty Five and Paise Sixty Nine Only

Signature of the Contractor

Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.